CLAIMS

1. An SiC-formed material produced by the CVD method using nitrogen gas together with raw material gases, characterized by possessing a specific gravity of 3.15 or more, light transmittance of 1.1 to 0.05%, and resistivity of 3×10^{-3} to 10^{-5} Ω m.

2. A method of producing an SiC-formed material comprising producing an SiC film on the surface of a substrate by the CVD method using nitrogen gas together with raw material gases, and removing the substrate to obtain the SiC-formed material, wherein the raw material gas concentration, in terms of the ratio of the raw material flow rate (1/min) to the carrier gas flow rate (1/min) introduced into the CVD reaction chamber in which the substrate is located, is 5-15 vol%, the nitrogen gas concentration, in terms of the ratio of the nitrogen gas flow rate (1/min) to the raw material gas flow rate (1/min), is 10-120 vol%, the raw material gas retardation time defined by the following formula is controlled to 7-110 seconds, and the deposition rate is controlled to 20-400 μm/hour,

Raw material gas resident time (sec) = $\{(\text{Effective reaction volume in the reaction chamber } (1))/(\text{raw material gas flow rate } (1/min))\}x\{(273+20)/(273 + \text{Reaction temperature } (^{\circ}\text{C}))\}\times60.$

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